

Syed Saad Abbas

Address Sandweg 8 , 33689, Bielefeld, Germany

E-Mail saadabbas06@gmail.com

Mobile 0049(0)15203217939



Work Experience

February 2022 - till date

Self-employed Freelancer

- Providing Cloud-based IoT services to customers
- Development of Alexa custom and home automation skills
- System development on Matter protocol

October 2021 – till date

Software Developer

Miele & Cie. KG, Gütersloh via Hays Professional Solutions GmbH, Dortmund, Germany

- Development and maintenance of User Interface (UI) software for Consumer Electronics in C and C++
- Development of Smoke tests in Python
- Automating and managing software releases
- Participation in Scrum meetings for Sprint planning, Daily

April 2018 - September 2021

Software Developer

Bauer Safety Engineering, Germany

- Development and maintenance of Human Machine Interface software in C on NXP microcontroller
- Development of GUI for PC-based applications using Java
- Development of Android application using Java
- Programming Bluetooth interface with Android application using esp32 in C
- Programming communication interface of carbon dioxide (CO2) sensor with esp32

May 2017 - April 2018

Master Thesis

Development of self-learning algorithm with automatic parameterization for motor control with up to two to three drive integrated collision sensor (Force Sensitive Resistor)

- Derivation of software specifications per customer requirements
- System characterization on MATLAB
- Development of algorithm with automatic parameter adjustment to optimal operating point (during operation)
- Algorithm programming on target microcontroller

- August 2016 - March 2017 **Internship**
- Programming of communication protocol to program ECU in Java
 - Assisting the testing team to execute system-level tests and resolve technical issues

Education

- March 2015 - September 2018 **Masters in Embedded Systems Design (MSc.)**
Hochschule Bremerhaven, Bremerhaven (Germany)
Courses: Model-based-SW-Development/ Real-Time-software, Digital Systems/VHDL, Discrete Control Systems

- January 2010 - January 2014 **Bachelor in Electronic Engineering (B.Eng)**
NED University of Engineering and Technology, Karachi (Pakistan)
Bachelor Thesis: Automatic Correction of Power factor for a 3 Phase Motor using Microcontroller (Variable Frequency Drive Method)

Knowledge & Skills

- Programming Language**
- C
 - Java
 - C++
 - VHDL
- Scripting Language**
- Python
 - Qml
- Software Tools**
- IAR Embedded Workbench
 - Visual Studio Code
 - Java Eclipse
 - Qt creator
 - CodeWarrior
 - Android Studio
- Cloud Services**
- AWS (Lambda, API Gateway, IoT Core, Amazon Cognito, EC2, RDBMS)
- Micro-controllers**
- ARM Cortex M0+
 - Renesas RL78
 - STM32F1
 - ESP32

Others

Language Skills

- English : C1
- Deutsch : B1